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Operating Instructions and Spare Parts Manual

Gomco Aspirators Models 789, 790, 791, 792



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Aspirators are the most dependable suction available for removal of saliva and mucus from oral cavity. Compact units occupy less than 1 sq. ft. of table or floor space to easily fit in with other facilities. The lightweight portable model may be easily carried to point-of-use. Cabinet and Stand models wheel freely to required positions... offer convenient accessory storage space.

Proper attention to operation, care and maintenance assures years of satisfactory service from your high quality Gomco unit.

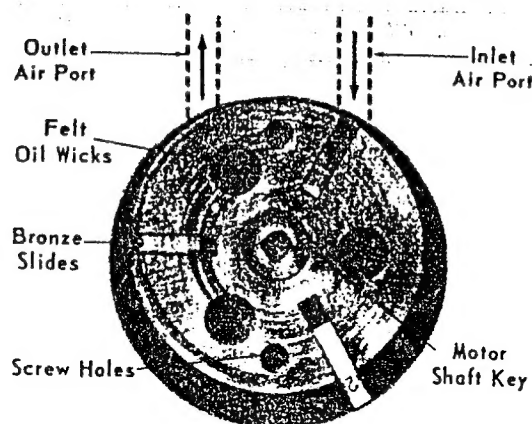


Fig. 1 Rotor

ASPIRATOR FUNCTION

Operating principle of all four units is identical. Vacuum is produced by a rotary compressor pump.

The Rotor (Fig. 1), equipped with three bronze slides, rotates inside the pump casing at approximately 1,725 revolutions per minute. The bronze slides force air inside the casing out through a prothole, creating the necessary vacuum for suction.

Precision-fitted rotor and slides provide maximum efficiency and service life. The pump motor is finely balanced for quiet, troublefree operation throughout extended periods of use.

The Safety Overflow Valve (Fig. 2) assures positive protection of the pump from moisture damage, in the event the vacuum bottle fills to overflowing. Upon entry of any moisture, the automatic valve instantly closes off the suction system until bottle and tubing is emptied and replaced. Install new Chamois Disc.

NOTE: Unit will cease to function if it is drawing more current than the nameplate specifies. If this occurs, locate and correct the cause. The pump motor will automatically reset after cooling. The unit should not remain unattended until correction has been made. To prevent shock hazard, refer servicing to qualified personnel.

PREPARATION FOR USE

1. Be sure that all rubber tubing, including the 1-foot length from bottle to pump, is clean, sterile, and thoroughly dry inside and out.
2. Be sure the 5-foot tube is connected to the side of the bottle top having the longer metal tube extending into the bottle, marked "to patient".
3. Cotton packing in muffler should be replaced at frequent intervals or whenever oil or foreign matter begins to collect. Caution should be used to pack new cotton loosely so that air from pump can be freely expelled. If cotton is packed too tightly, suction power of the pump will suffer.
4. Oil for the pump is supplied from reservoir located on the pump cover. Oil in reservoir should be replenished after every 24 hours of service. Gomco Motor Oil is supplied with the unit. Order additional quantities through your dealer.
5. Twice yearly, add 6 drops of Gomco Motor Oil to cup at each end of motor.

OPERATING PROCEDURE

1. Be sure ON/OFF switch is in OFF position.
2. Plug the line cord into the electric outlet after making sure it is the same as that indicated on the unit nameplate.
3. Turn ON/OFF switch to ON position.
4. Check degree of vacuum by pinching the 5-foot tubing. The amount of vacuum, in inches, will register on the vacuum gauge. To increase vacuum, turn vacuum regulating valve clockwise. To decrease, turn valve counterclockwise.
5. Be sure to empty vacuum bottle when contents reach the safe-limit line.
6. If, during aspiration, loss of suction occurs and vacuum bottle has filled beyond safe-limit line, moisture has probably entered the Safety Overflow Valve. This moisture causes the valve to close off suction system, thereby preventing moisture from entering and damaging pump.
7. If "flooding" of this nature occurs, chamois disc in Safety Overflow Valve must be replaced immediately, as must the felt filter in the valve cover (see "Care and Maintenance").
8. Unit may be used without disc in emergencies, but there is no overflow protection.
9. If, for any reason, moisture enters pump itself or pump becomes sluggish as the result of not adding motor oil as prescribed in No. 4 of preceding section, pump may become unusually hot or noisy. In addition, the ability to produce the necessary vacuum will suffer. If this occurs, pump should be flushed or cleaned (see "Care and Maintenance").

CARE AND MAINTENANCE

Safety Overflow Valve — In the event vacuum drops as a result of moisture contacting the Safety Overflow Valve (see No. 6 under "Operating

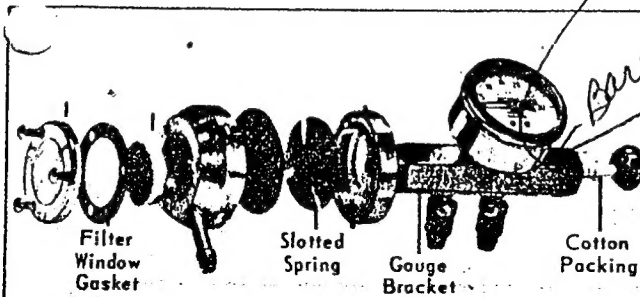


Fig. 2 Safety Overflow Valve

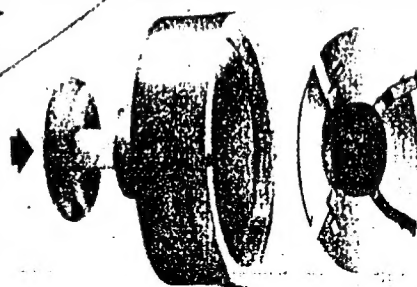


Fig. 3 Special Slotted Spring Tool

Procedure"), chamois disc and felt filter should be replaced immediately as follows:

While pump is running, remove Overflow Valve cover by twisting counterclockwise. Then, turn pump off and remove wet chamois disc (see Fig. 2). Gently pry out the slotted spring. Next, remove wet felt filter in valve cover by unscrewing the 3 screws. Remove both the gasket and filter. Clean filter hole and all parts with a dry cloth. Insert new filter, replace gasket and cover in the order removed, making certain that filter cover is screwed on evenly and firmly to make an air-tight seal. Then, thoroughly clean and dry all valve parts. Remove the 1-foot rubber tube, wash in water, dry thoroughly, and replace.

To reassemble valve, put slotted spring back in place with the rubber washer facing inward to the p (see special tool Fig. 3). Do not exert undue pressure on it. Insert new chamois disc . . . turn pump on to insure seating of the disc. Entire metal edge of the disc should fit in valve recess. Replace valve cover with a light, clockwise turn.

Should valve close and suction stop after replacing cover, moisture must still be reaching the chamois disc. Valve should be disassembled and dried more thoroughly as should the tubing. In the event tube leading to Safety Overflow Valve is compressed suddenly, valve may close by itself. If so, stop the pump for 3 seconds, and it will re-open.

Extra chamois discs and felt discs are supplied with unit. Additional quantities may be ordered from your dealer.

FLUSHING — Open Safety Overflow Valve. Remove chamois disc and slotted spring as above. Remove cotton from muffler by removing cap. Hold rag over muffler opening and, with pump running, drop kerosene into opening in center of valve until it has been sucked through the pump and is expelled through the muffler against the rag. Keep motor running until no more kerosene is expelled. Then, with the pump still running, place a few drops of Gomco Motor Oil in the same valve opening. Run pump a few minutes. After stopping pump, wipe out muffler, replace cotton, packing it loosely as previously instructed. Fill oil reservoir in pump cover. If pump runs freely, if it is no longer noisy and motor does not overheat, the difficulty has been overcome.

CLEANING — If flushing does not remedy the difficulty, remove rotor and bronze slides and clean pump chamber as follows: Remove the four screws from pump cover. Wipe cover clean and dry. Rotor and slides are removed by putting two of the screws into threaded holes in the face of the rotor (see Fig. 1) and prying rotor out slowly, using a screwdriver as a lever. Slides are numbered and must be replaced in the slots from which they are taken. Be certain that flat ends of the slides are replaced so that they point toward the center of the rotor . . . the rounded ends toward the outside of rotor.

Slides and rotor may be cleaned and polished on fine emery cloth. Wash all parts in kerosene, dry thoroughly, wipe all surfaces with small amount of oil before assembling. Inside wall of pump casing should also be wiped with kerosene and a thin coat of Gomco Motor Oil applied.

Do not use steel hammer to reassemble slides and rotor. Use wooden block or some such cushion to prevent scratching or damaging the surface. Be sure key on the motor shaft is lined up perfectly with keyway to prevent burring.

When rotor is in place, remove the two screws . . . replace pump cover, and with the motor running draw all four screws down evenly so that cover fits perfectly and tightly on all slides. Fill oil reservoir. Unit is ready for operation.

These high quality units have been designed and built to give years of satisfactory operation. Any piece of equipment, however, is only as good as the care it receives. We are giving in this manual our suggestions for the proper maintenance and care of these units.

Plug the line cord into the electric outlet after making sure it is the same as that indicated on the nameplate of the unit; turn on the switch. Follow these simple operating instructions for years of satisfactory service from your Gomco unit.

NOTE: Units will cease to function if they are drawing more current than the nameplate specifies. Locate and reset overload protector after reason for overload is corrected. To prevent shock hazard, refer servicing to qualified personnel. If your unit does not have red button, it will have a built-in protector.

REPLACEMENT PARTS LIST

Part No.	Description
5000	32 oz. Vacuum Bottle - 2675
5040	Rubber Bottle Cap (32 oz.) - 2674
5110	Overflow Valve Cover - 2329
5120	Overflow Valve Cover Gasket -
5130	Overflow Valve Slotted Spring - 2902
5140	Overflow Valve Back - 2681
5150	Overflow Valve Complete - 2324
5160	Tube Connection Nut (large) -
5180	Tapered Tube Fitting (large hole) -
5200	Chamois Discs (1 doz. minimum) - 3108
5210	Felt Filter Discs (1 doz. minimum) - 3107
5290	Rubber Tubing 3/16" I.D. Amber (12" length) -
5320	Rubber Tubing 3/16" I.D. Amber (60" length) -
5322	Rubber Tubing 3/16" I.D. Amber (30" length) -
5345	Adjusting Valve - 3009
5460	Vacuum Gauge - 30" - 2335
5990	Filter Window Cover - 2903
6000	Filter Window Gasket - 0772
6010	Filter Window Retainer Ring -
6020	Filter Window Screws - 3134
6090	Bottle Bracket (arm type) - 2697
6110	Bottle Bracket (for cabinet) - 2433
6142	Electric Cord with Plug - 2439
6143	Plug -
6160	Switch - Toggle Type -
6810	Electric Motor Oil - 4 oz. 3106

ALL PARTS AVAILABLE THROUGH DEALER
OR DIRECT FROM MANUFACTURER.

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Nothing contained herein is to be construed as a recommendation for any use which is in violation of any existing patent, foreign or domestic, or of applicable laws and regulations.